

ABSTRACT OF THE DISCLOSURE

The subject invention pertains to nucleic acid constructs for post-transcriptional control of expression of a polynucleotide encoding a protein in a eukaryotic cell, wherein the constructs  
5 include a metabolite responsive instability element such as the glucose-regulated mRNA instability element. The subject invention further pertains to host cells and vectors comprising the nucleic acid constructs of the invention, as well as probes, methods, and kits for detecting metabolite responsive instability elements or mutations thereof.